Pham 87419

1: Asta_17 + 10

2: ShaiHulud_16 + 1

3: JasonD_20

4: HankSprout_17

5: Carostasia_15
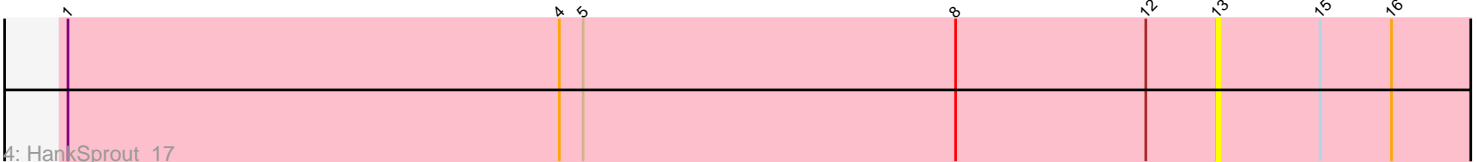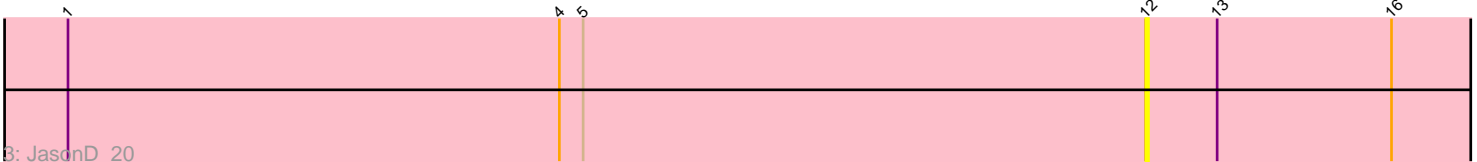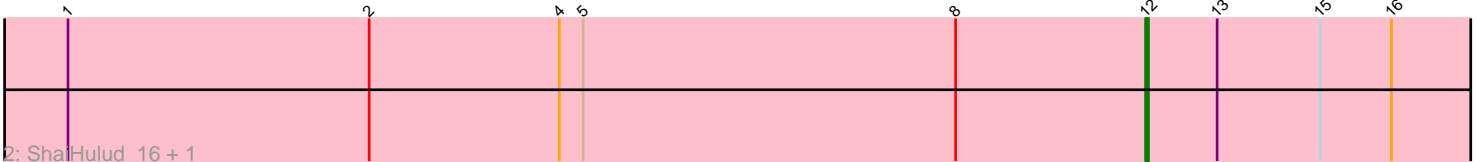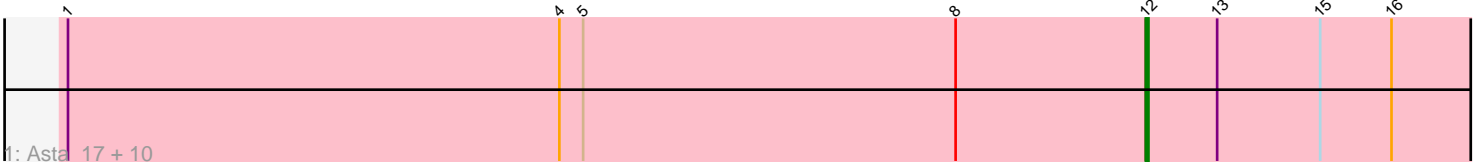
6: Finny_15

7: BouleyBill_17

8: LilTerminator_18 + 2

9: Clock_17

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 87419 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87419 has 22 members, 19 are drafts.

Phages represented in each track:
• Track 1 : Asta_17, StirfryIV_16, JeriBeth_16, NickSell_16, KingJulien_16, JasperRussell_16, OldNelly_16, Byron23_15, Delphidian_16, HungryHenry_16, SoilGremlin_16
• Track 2 : ShaiHulud_16, Figueroism_16
• Track 3 : JasonD_20
• Track 4 : HankSprout_17
• Track 5 : Carostasia_15
• Track 6 : Finny_15
• Track 7 : BouleyBill_17
• Track 8 : LilTerminator_18, Fulton_18, GreenIvy_18
• Track 9 : Clock_17

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 12, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Asta_17, Byron23_15, Carostasia_15, Delphidian_16, Figueroism_16, Finny_15, HungryHenry_16, JasonD_20, JasperRussell_16, JeriBeth_16, KingJulien_16, NickSell_16, OldNelly_16, ShaiHulud_16, SoilGremlin_16, StirfryIV_16,

Genes that have the "Most Annotated" start but do not call it:
• HankSprout_17,

Genes that do not have the "Most Annotated" start:
• BouleyBill_17, Clock_17, Fulton_18, GreenIvy_18, LilTerminator_18,

Summary by start number:

Start 11:
• Found in 5 of 22 (22.7%) of genes in pham
• No Manual Annotations of this start.
• Called 40.0% of time when present

• Phage (with cluster) where this start called: BouleyBill_17 (EA4), Clock_17 (EA5),

Start 12:
• Found in 17 of 22 (77.3%) of genes in pham
• Manual Annotations of this start: 3 of 3
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Asta_17 (EA1), Byron23_15 (EA1), Carostasia_15 (EA10), Delphidian_16 (EA1), Figueroism_16 (EA1), Finny_15 (EA2), HungryHenry_16 (EA1), JasonD_20 (EA1), JasperRussell_16 (EA1), JeriBeth_16 (EA1), KingJulien_16 (EA1), NickSell_16 (EA1), OldNelly_16 (EA1), ShaiHulud_16 (EA1), SoilGremlin_16 (EA1), StirfryIV_16 (EA1),

Start 13:
• Found in 17 of 22 (77.3%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: HankSprout_17 (EA1),

Start 14:
• Found in 4 of 22 (18.2%) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Fulton_18 (EA5), GreenIvy_18 (EA5), LilTerminator_18 (EA5),

Summary by clusters:

There are 5 clusters represented in this pham: EA1, EA2, EA5, EA4, EA10,

Info for manual annotations of cluster EA1:
•Start number 12 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA2:
•Start number 12 was manually annotated 1 time for cluster EA2.

Gene Information:
Gene: Asta_17 Start: 9493, Stop: 9642, Start Num: 12
Candidate Starts for Asta_17:
(1, 9085), (4, 9271), (5, 9280), (8, 9421), (Start: 12 @9493 has 3 MA's), (13, 9520), (15, 9559), (16, 9586),

Gene: BouleyBill_17 Start: 9409, Stop: 9576, Start Num: 11
Candidate Starts for BouleyBill_17:
(3, 9196), (4, 9202), (7, 9304), (8, 9352), (9, 9367), (11, 9409), (14, 9463), (15, 9490), (16, 9517),

Gene: Byron23_15 Start: 9193, Stop: 9342, Start Num: 12
Candidate Starts for Byron23_15:

(1, 8785), (4, 8971), (5, 8980), (8, 9121), (Start: 12 @9193 has 3 MA's), (13, 9220), (15, 9259), (16, 9286),

Gene: Carostasia_15 Start: 9450, Stop: 9602, Start Num: 12
Candidate Starts for Carostasia_15:
(7, 9330), (8, 9378), (9, 9393), (10, 9423), (Start: 12 @9450 has 3 MA's), (13, 9477), (16, 9543),

Gene: Clock_17 Start: 10422, Stop: 10589, Start Num: 11
Candidate Starts for Clock_17:
(4, 10215), (5, 10224), (6, 10296), (11, 10422), (16, 10530),

Gene: Delphidian_16 Start: 9187, Stop: 9336, Start Num: 12
Candidate Starts for Delphidian_16:
(1, 8779), (4, 8965), (5, 8974), (8, 9115), (Start: 12 @9187 has 3 MA's), (13, 9214), (15, 9253), (16, 9280),

Gene: Figueroism_16 Start: 9176, Stop: 9325, Start Num: 12
Candidate Starts for Figueroism_16:
(1, 8768), (2, 8882), (4, 8954), (5, 8963), (8, 9104), (Start: 12 @9176 has 3 MA's), (13, 9203), (15, 9242), (16, 9269),

Gene: Finny_15 Start: 9257, Stop: 9412, Start Num: 12
Candidate Starts for Finny_15:
(4, 9035), (7, 9137), (8, 9185), (Start: 12 @9257 has 3 MA's), (13, 9284), (16, 9350),

Gene: Fulton_18 Start: 9721, Stop: 9834, Start Num: 14
Candidate Starts for Fulton_18:
(4, 9460), (5, 9469), (11, 9667), (14, 9721), (16, 9775),

Gene: GreenIvy_18 Start: 9738, Stop: 9851, Start Num: 14
Candidate Starts for GreenIvy_18:
(4, 9477), (5, 9486), (11, 9684), (14, 9738), (16, 9792),

Gene: HankSprout_17 Start: 9387, Stop: 9509, Start Num: 13
Candidate Starts for HankSprout_17:
(1, 8952), (4, 9138), (5, 9147), (8, 9288), (Start: 12 @9360 has 3 MA's), (13, 9387), (15, 9426), (16, 9453),

Gene: HungryHenry_16 Start: 9481, Stop: 9630, Start Num: 12
Candidate Starts for HungryHenry_16:
(1, 9073), (4, 9259), (5, 9268), (8, 9409), (Start: 12 @9481 has 3 MA's), (13, 9508), (15, 9547), (16, 9574),

Gene: JasonD_20 Start: 9613, Stop: 9765, Start Num: 12
Candidate Starts for JasonD_20:
(1, 9205), (4, 9391), (5, 9400), (Start: 12 @9613 has 3 MA's), (13, 9640), (16, 9706),

Gene: JasperRussell_16 Start: 9480, Stop: 9629, Start Num: 12
Candidate Starts for JasperRussell_16:
(1, 9072), (4, 9258), (5, 9267), (8, 9408), (Start: 12 @9480 has 3 MA's), (13, 9507), (15, 9546), (16, 9573),

Gene: JeriBeth_16 Start: 9327, Stop: 9476, Start Num: 12

Candidate Starts for JeriBeth_16:
(1, 8919), (4, 9105), (5, 9114), (8, 9255), (Start: 12 @9327 has 3 MA's), (13, 9354), (15, 9393), (16, 9420),

Gene: KingJulien_16 Start: 9588, Stop: 9737, Start Num: 12
Candidate Starts for KingJulien_16:
(1, 9180), (4, 9366), (5, 9375), (8, 9516), (Start: 12 @9588 has 3 MA's), (13, 9615), (15, 9654), (16, 9681),

Gene: LilTerminator_18 Start: 9745, Stop: 9858, Start Num: 14
Candidate Starts for LilTerminator_18:
(4, 9484), (5, 9493), (11, 9691), (14, 9745), (16, 9799),

Gene: NickSell_16 Start: 9190, Stop: 9339, Start Num: 12
Candidate Starts for NickSell_16:
(1, 8782), (4, 8968), (5, 8977), (8, 9118), (Start: 12 @9190 has 3 MA's), (13, 9217), (15, 9256), (16, 9283),

Gene: OldNelly_16 Start: 9190, Stop: 9339, Start Num: 12
Candidate Starts for OldNelly_16:
(1, 8782), (4, 8968), (5, 8977), (8, 9118), (Start: 12 @9190 has 3 MA's), (13, 9217), (15, 9256), (16, 9283),

Gene: ShaiHulud_16 Start: 9188, Stop: 9337, Start Num: 12
Candidate Starts for ShaiHulud_16:
(1, 8780), (2, 8894), (4, 8966), (5, 8975), (8, 9116), (Start: 12 @9188 has 3 MA's), (13, 9215), (15, 9254), (16, 9281),

Gene: SoilGremlin_16 Start: 9187, Stop: 9336, Start Num: 12
Candidate Starts for SoilGremlin_16:
(1, 8779), (4, 8965), (5, 8974), (8, 9115), (Start: 12 @9187 has 3 MA's), (13, 9214), (15, 9253), (16, 9280),

Gene: StirfryIV_16 Start: 9480, Stop: 9629, Start Num: 12
Candidate Starts for StirfryIV_16:
(1, 9072), (4, 9258), (5, 9267), (8, 9408), (Start: 12 @9480 has 3 MA's), (13, 9507), (15, 9546), (16, 9573),